



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Chuanyou Dong

U.S. Serial No: 09/ 608,474

Group Art Unit: 2124

Filing Date: 30 June 2000

Examiner: Chat C. Do

Title: "CONTROL OF LOW FREQUENCY NOISE FLOOR IN UPSAMPLING"

Assistant Commissioner for Patents

P.O. Box 1450

Washington, D.C. 22313-1450

**RECEIVED**

JUN 13 2003

Technology Center 2100

## AMENDMENT AND RESPONSE

Dear Sir:

In response to receipt of an Office Action, mailed 07 June 2003, on the above-identified patent application, please amend the application as follows.

In the claims:

For convenient review, all pending claims are set forth herein. Claims that are new or are amended herein are indicated by an asterisk (\*).

1. A method for adjusting a noise floor of a filtered signal for low frequencies, the method comprising:

providing a digital signal, having M bits, that has been digitally filtered, where M is a selected positive number;

forming an EXclusive OR product of N LSB bits of the M-bit filtered signal, to provide a one-bit supplement signal, where N is a selected positive number satisfying  $N+1 \leq M$ ;

adding the supplement signal to the M-bit filtered signal to produce a modified filtered signal; and